



Structural Specialities
& Projects (India) Pvt. Ltd.

Structural Strengthening using Steel Plate Bonding Method at Sewri, Mumbai



Commercial /
Residential /
Institutional
Buildings

Structure Details

Proposed Ground + 60 Storied RCC Framed Structure of in Mumbai, was called for Strengthening work at 10th Floor Level (Appx. 35m from Ground) with Steel Plate Bonding.

Brief Scope of work:

- Surface Preparation all sides of Column by roughening surface with cup wheel blade.
- Detect the location of Vertical Bars & Stirrups by using Metal Detector.
- Drilling of the holes and fixing Anchor fasteners
- Prepare the Strengthening Plate with bearing studs (10 mm Square Bars) welded on randomly oriented preferably vertical, inclined and few horizontal.
- Fixing base plate in line and level at bottom of column using anchor fasteners.
- Fixing the plates on the column as much as possible height of Plate with help of few anchors to hold the plates in position & then fasten the other anchors as shown in drawing.
- Grouting of Bottom of base plate for leveling / filling gaps

Project Highlights

- A Challenging Project in terms of Logistics to carry huge metal plates and installing at 35m height from ground to Shear walls of size appx. 7-8m long. The strengthening job successfully executed by SSPI in stipulated time,
- SSPI has completed the project with Highest standards of Quality and SAFETY with ZERO accidents / LTI.

Client

Peninsula Land Pvt.
Ltd.

Period

2017-18

Key Items of work

Structural
Strengthening using
Structural Steel
Section / Insert
Plates, Mechanical
Anchors

Injection Grouting

Appx. Tonnage of
Steel used 205 MT.